

FIGURE 1A

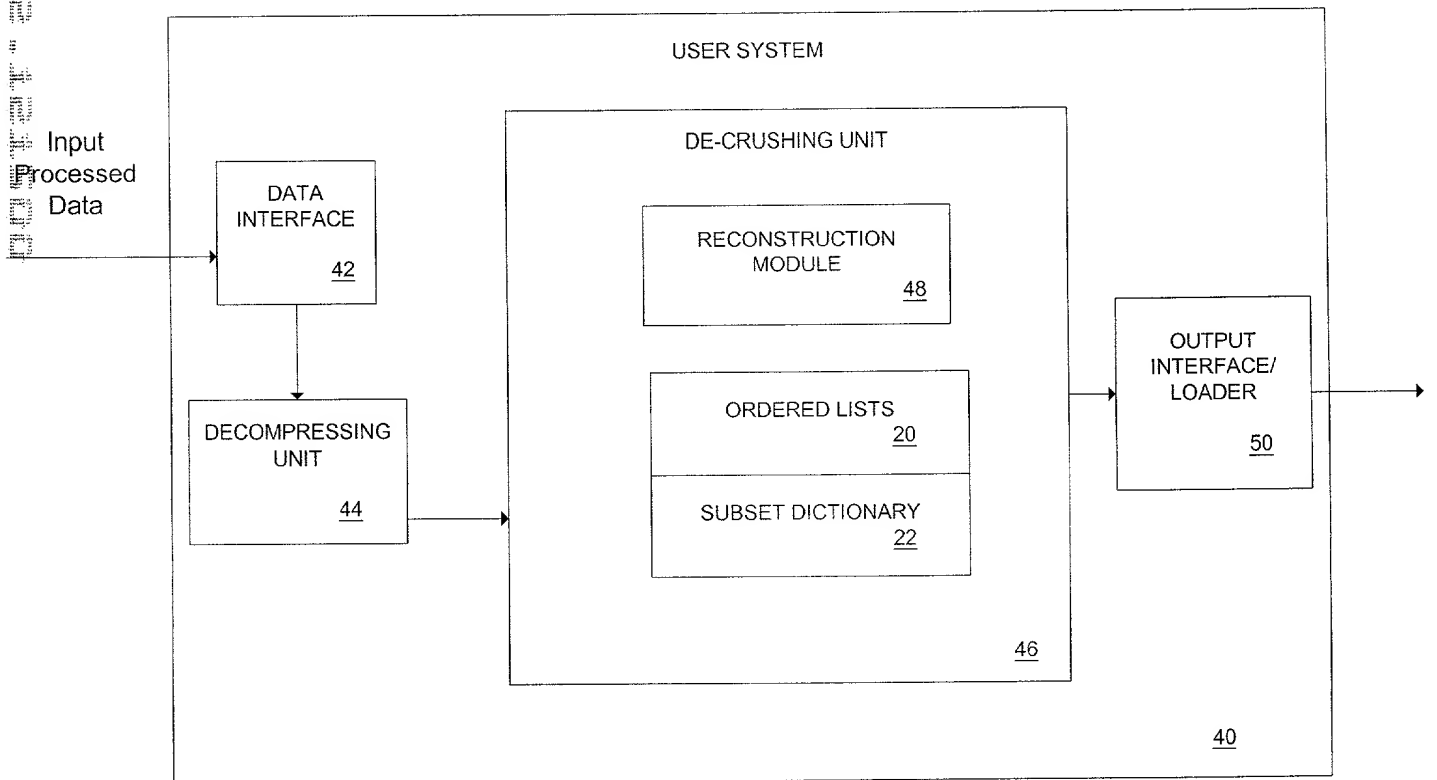


FIGURE 1B

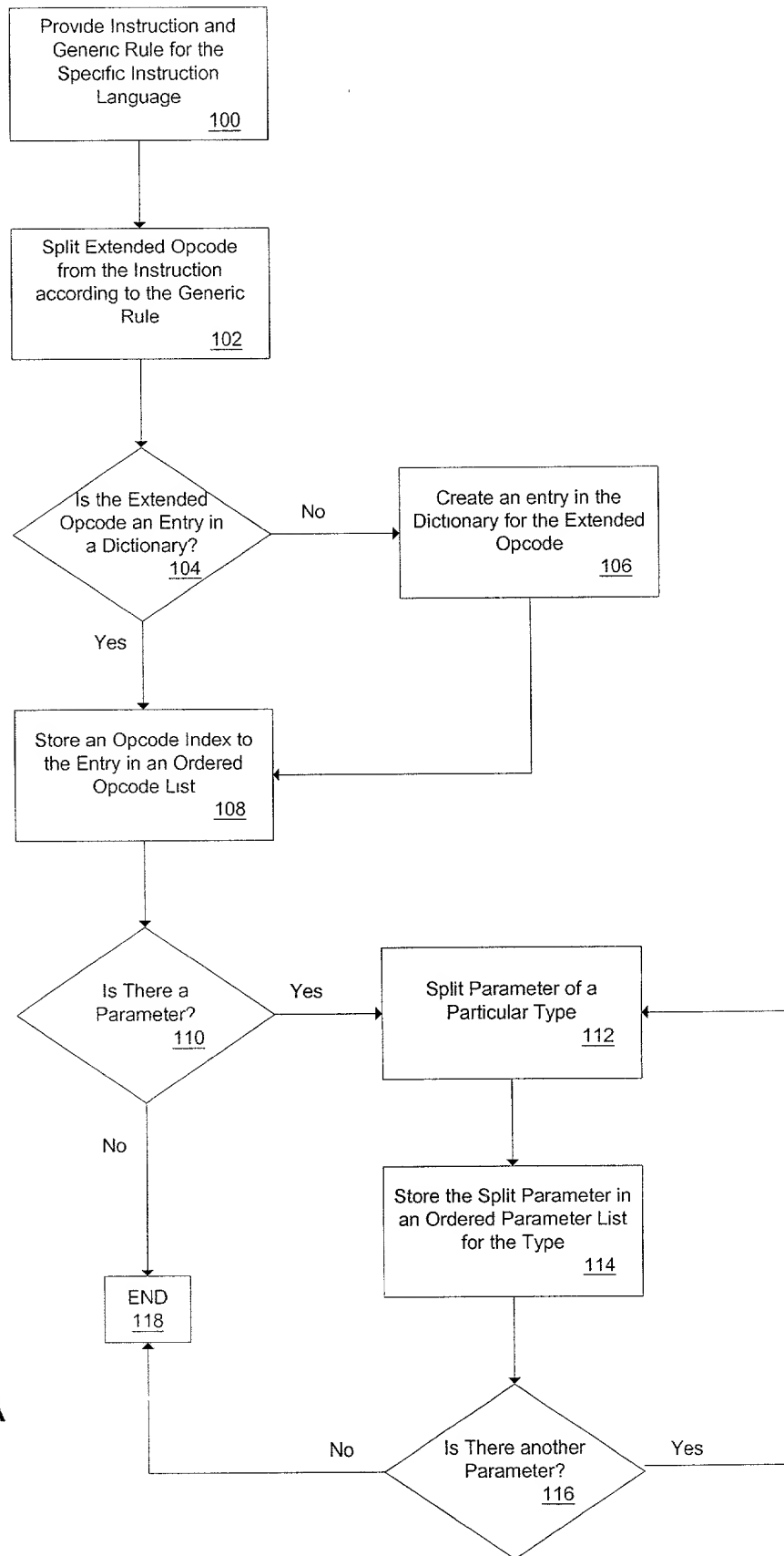


Figure 2A

FIG. 2B is a flowchart illustrating a process for organizing parameter data. The process begins with step 130, which involves providing an instruction of a binary data file and a parameter list for each parameter type. This is followed by step 132, where parameters are considered in each instruction and behaviors are compared. Step 134 involves establishing corresponding sub-type classes. In step 136, parameters are split from the parameter list and stored in sub-lists. Step 138 involves updating dictionary entries with each subtype. Finally, step 140 involves reorganizing each sub-list under its subtype, leading to the END step 142.

Figure 2B

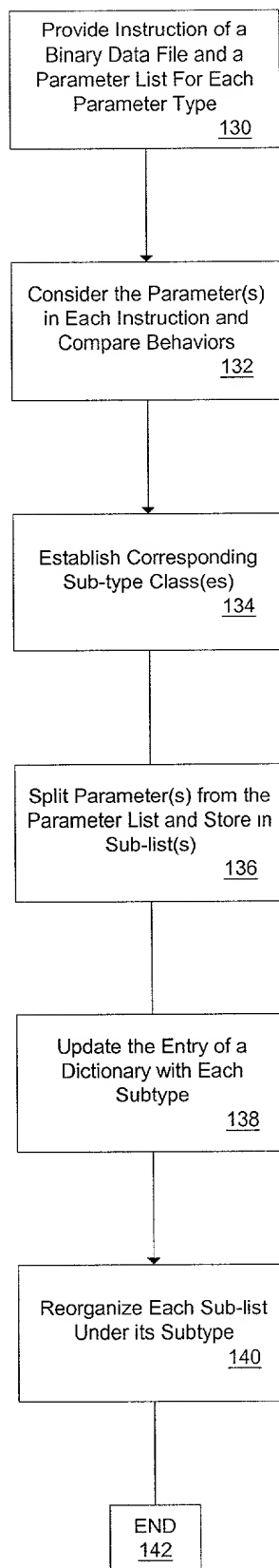


FIGURE 3A

16					
52	56	58	60	62	64
Entry (Index)	Prefix	OpCode	ModR/M	Parameter Type	Analysis Data
1		01		Imm1, Offset 4, SIB	
2		02		Imm1, Offset 4, SIB	
3	0 x 64	02	0x6E	Imm1, Offset 2	
4	0 x 64, 0 x 66	02	0x6E	Imm1, Offset 2	
5		01	0x6E	Imm2, Offset 4	

64

FIGURE 3C

FIGURE 3B

72	74	76	22
INDEX	EXTENDED OPCODE	PARAMETER LIST INDEX	
1	01	1, 7, 9	
2	02	1, 7, 9	
3	64, 02, 6E	1, 6	
4	64, 66, 02, 6E	1, 6	
5	01, 6E	2, 7	

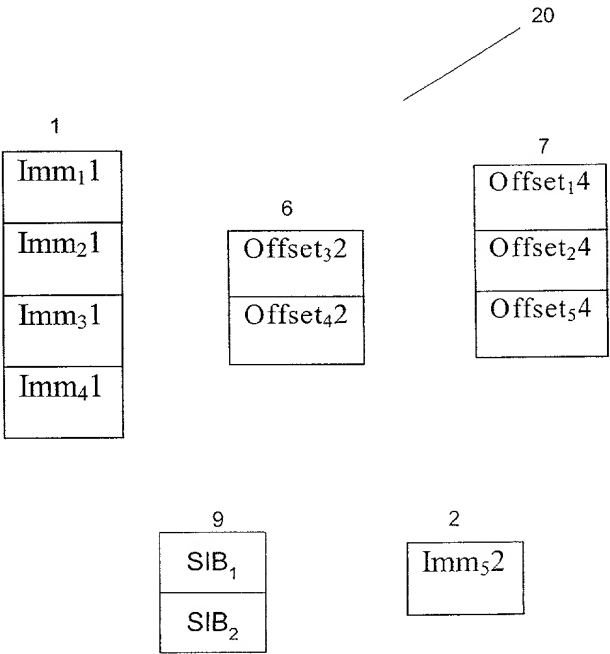
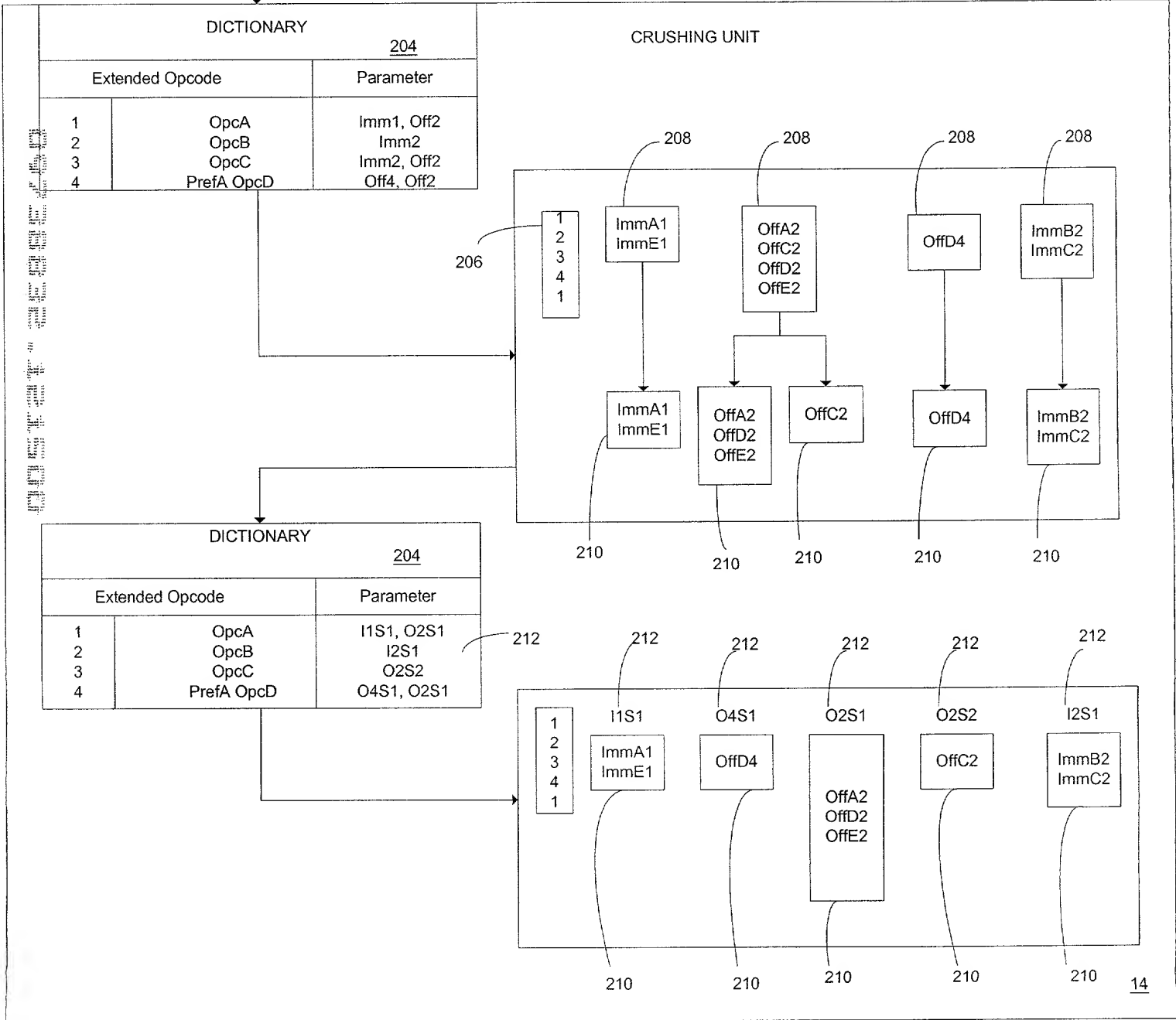
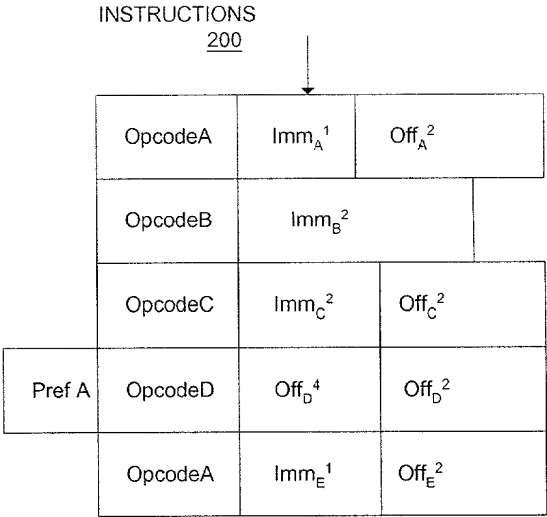


FIGURE 4



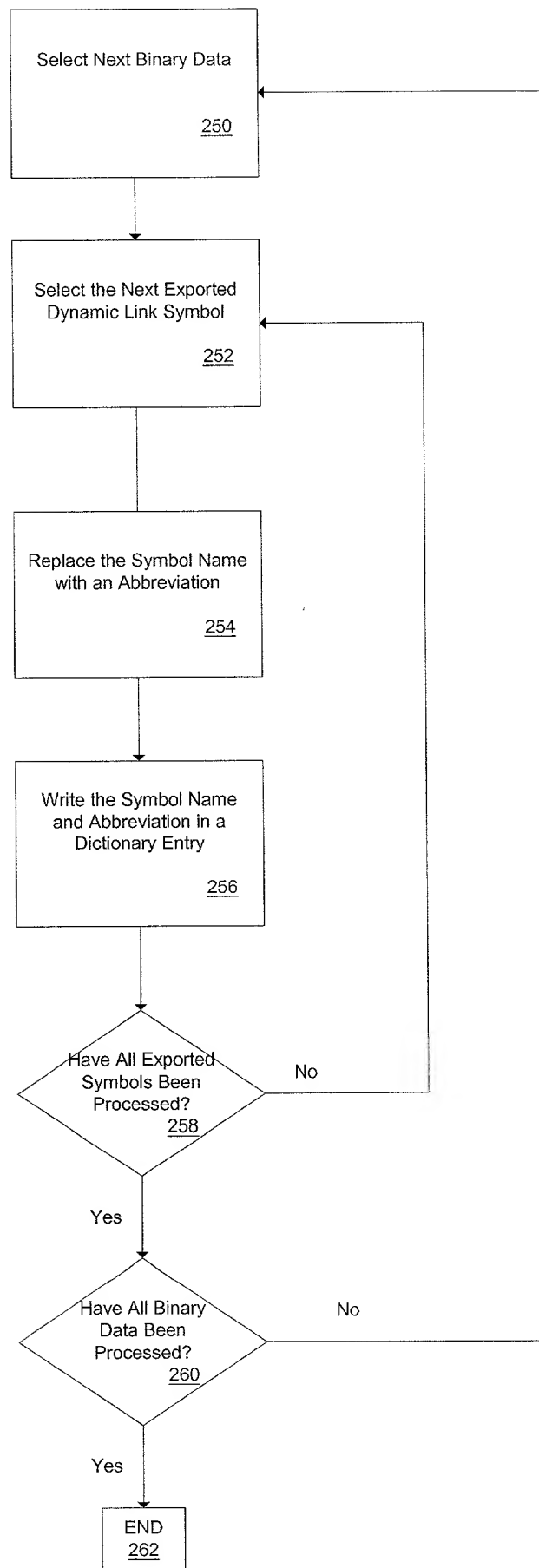


Figure 5A

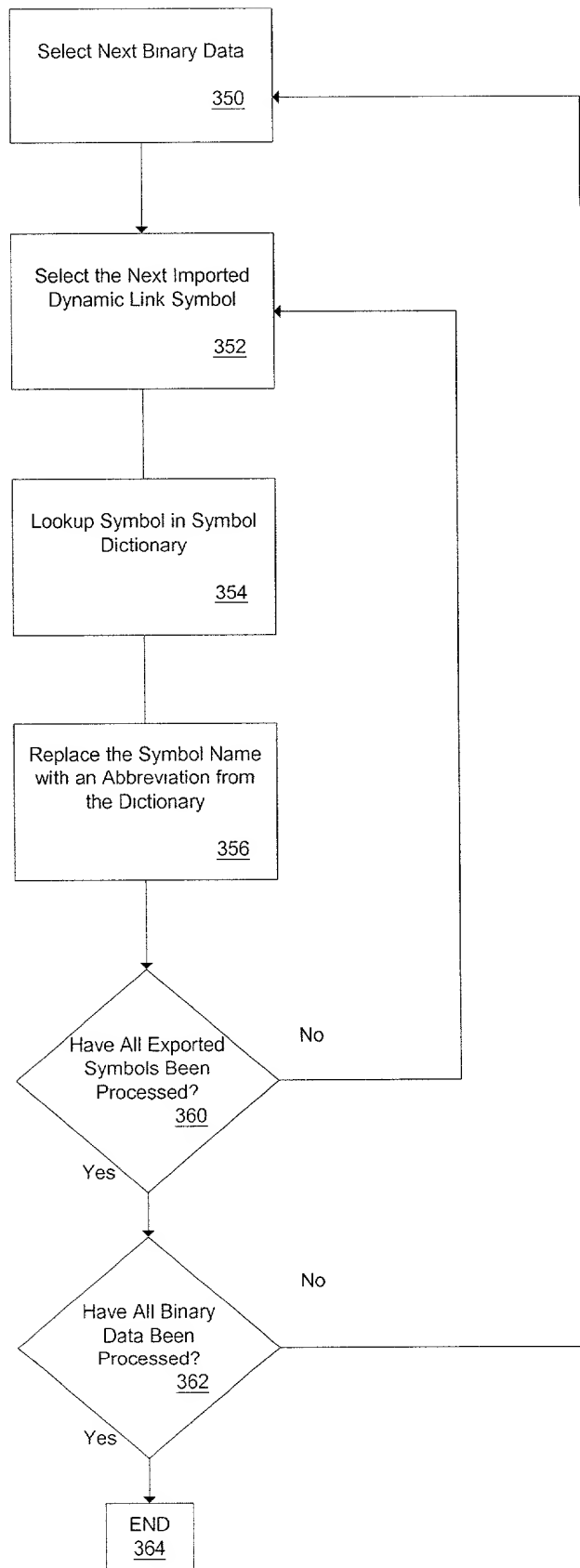


Figure 5B

FIGURE 6

300			
302	304	306	308
Entry (Index)	Symbol Name	Abbreviation	Used?
A	foo	1,1	X
B	void	1,2	X
C	bar	1,3	
D	fed	1,4	
E	main	1,5	X



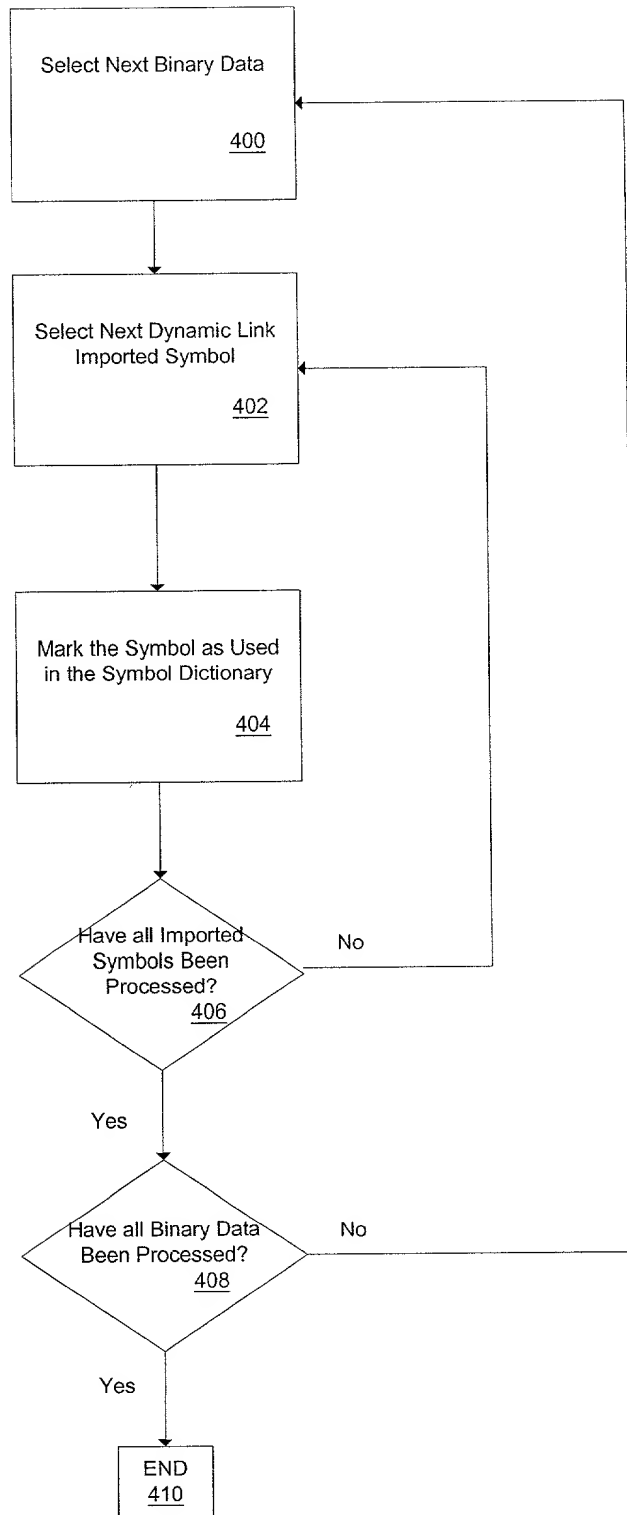


Figure 7A

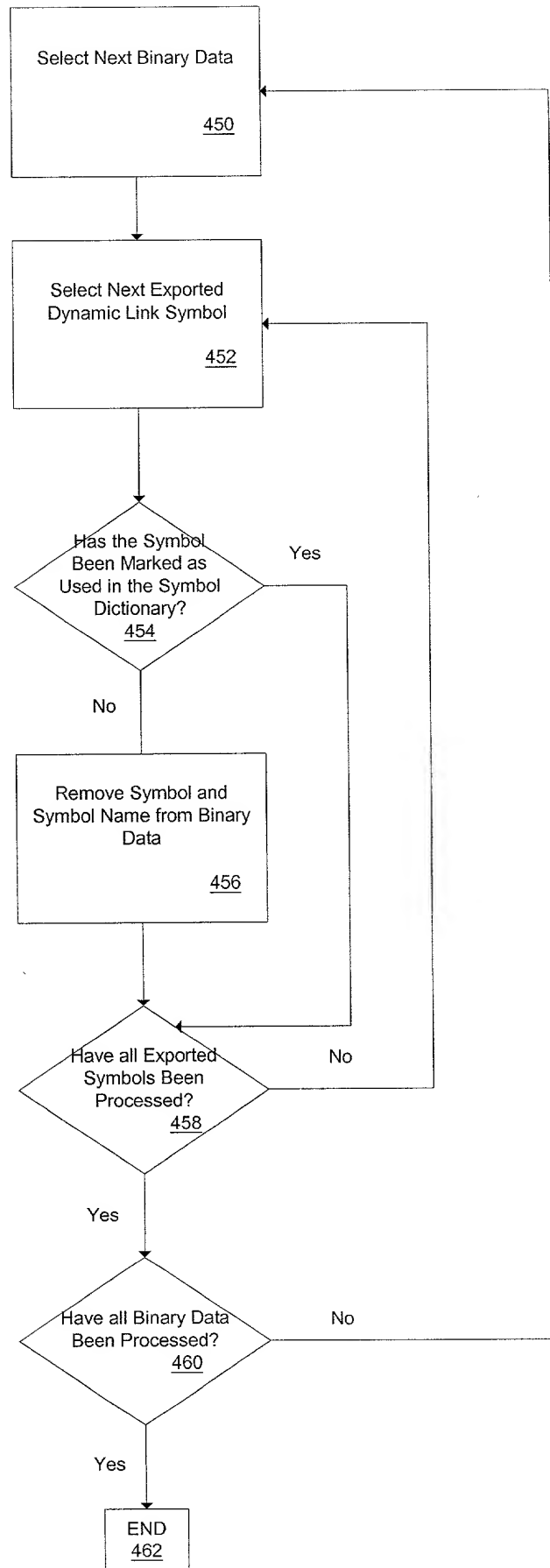


Figure 7B

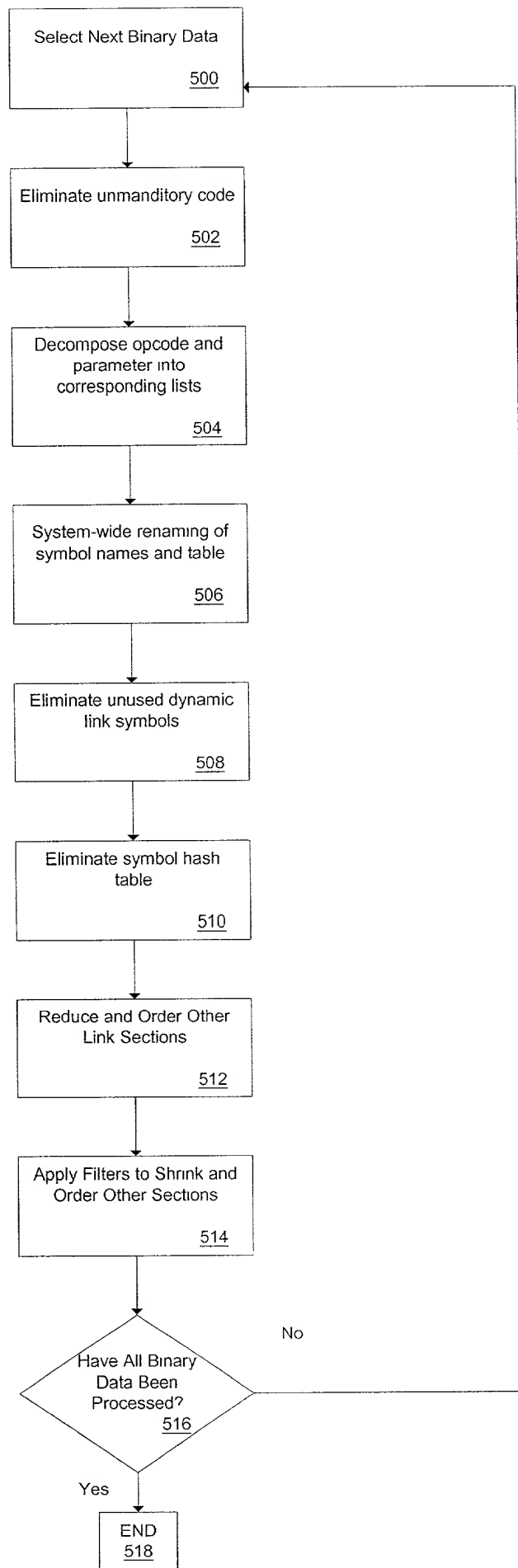


Figure 8

FIG. 9 is a block diagram of a machine-readable medium 600. The machine-readable medium 600 includes a processing routine 602, a storage routine 614, a block management routine 612, and an operating system (OS) 620. The processing routine 602 includes a decomposition routine 604, a renaming routine 608, an analysis routine 606, and an elimination routine 610. The storage routine 614 is connected to the processing routine 602 and the block management routine 612. The block management routine 612 is connected to the processing routine 602 and the storage routine 614. The OS 620 is connected to the processing routine 602.

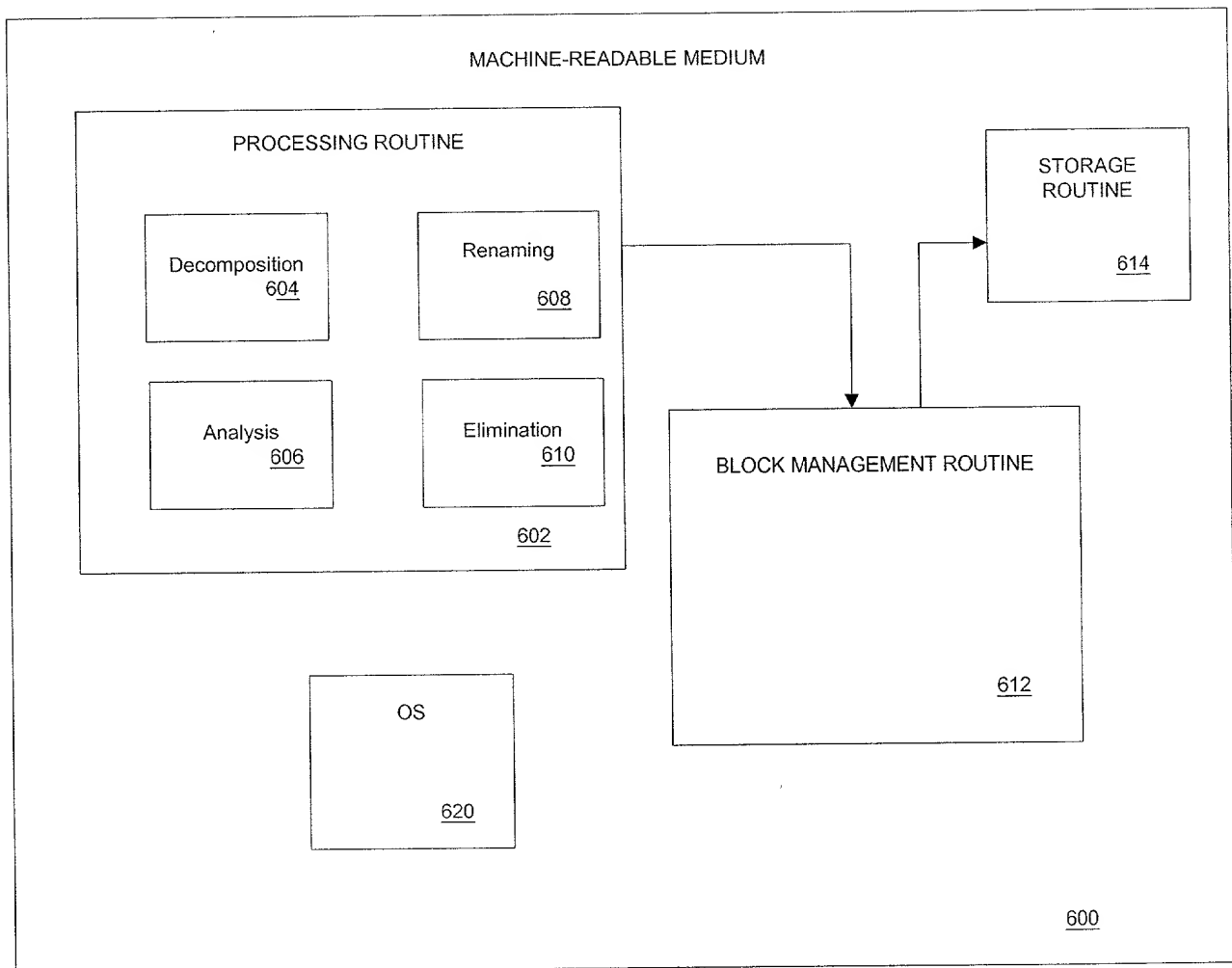


FIGURE 9